Contents

VOLUME 15, NUMBER 1, MARCH 1990

J. C. Z. WOINARSKI: Effects of fire on the bird communities of tropical woodlands and open forests in northern Australia 1

D. J. TONGWAY AND J. A. LUDWIG: Vegetation and soil patterning in semi-arid mulga lands of Eastern Australia 23

S. M. TURTON: Light environments within montane tropical rainforest, Mount Bellenden Ker, North Queensland 35

M. S. HOPKINS, J. G. TRACEY AND A. W. GRAHAM: The size and composition of soil seed-banks in remnant patches of three structural rainforest types in north Queensland 43

J. E. WILLIAMS: The importance of herbivory in the population dynamics of three sub-alpine eucalypts in the Brindabella Range, south-east Australia 51

J. B. ZEDLER, E. PALING AND A. MCCOMB: Differential responses to salinity to help explain the replacement of native *Juncus kraussii* by *Typha orientalis* in Western Australian salt marshes 57

J. LANDSBERG: Dieback of rural eucalypts: Does insect herbivory relate to dietary quality of tree foliage? 73

J. LANDSBERG: Dieback of rural eucalypts: Response of foliar dietary quality and herbivory to defoliation 89

J. LANDSBERG: Dieback of rural eucalypts: The effect of stress on the nutritional quality of foliage 97

G. VAUGHTON: Seasonal variation in honeyeater foraging behaviour, inflorescence abundance, and fruit set in *Banksia spinulosa* (Proteaceae) 109

R. A. BRADSTOCK: Demography of woody plants in relation to fire: *Banksia serrata* Lf. and *Isopogon anemonifolius* (Salisb.) Knight. 117

THESIS ABSTRACTS 133

BOOK REVIEWS 135

VOLUME 15, NUMBER 2, JUNE 1990

K. M. MAZE AND R. D. B. WHALLEY: Resource allocation patterns in *Spinifex sericeus* R.Br.: A dioecious perennial grass of coastal sand dunes 145

I. D. LUNT: Species-area curves and growth-form spectra for some herb-rich woodlands in western Victoria, Australia 155

D. M. J. S. BOWMAN, B. A. WILSON AND R. J. FENSHAM: Sandstone vegetation pattern in the Jim Jim Falls region, Northern Territory, Australia 163

N. REID: Mutualistic interdependence between mistletoes (*Amyema quandang*), and spiny-cheeked honeyeaters and mistletoebirds in an arid woodland 175

J. C. SCANLAN AND W. H. BURROWS: Woody overstorey impact on herbaceous understorey in *Eucalyptus* spp. communities in central Queensland 191

B. JENKINS AND R. L. KITCHING: The ecology of water-filled treeholes in Australian rainforests: Food web reassembly as a measure of community recovery after disturbance 199

K. CHAN: Habitat selection in the White-plumed Honeyeater and Fuscous Honeyeater at an area of sympatry 207

M. ABENSPERG-TRAUN AND E. S. DE BOER: Species abundance and habitat differences in biomass of subterranean termites (Isoptera) in the wheatbelt of Western Australia 219

D. A. BASS: Dispersal of an introduced shrub (*Crataegus monogyna*) by the Brush-tailed Possum (*Trichosurus vulpecula*) 227

G. M. CROWLEY, P. ANDERSON, A. P. KERSHAW AND J. GRINDROD: Palynology of a Holocene marine transgressive sequence, lower Mulgrave River valley, north-east Queensland 231

E. C. SAXON: Comment: Disturbance regimes in Northern Queensland rainforests: A re-evaluation of their relationship to species richness and diversity 241

D. I. NICHOLSON: Reply to E. C. Saxon 245

BOOK REVIEWS 247

VOLUME 15, NUMBER 3, SEPTEMBER 1990

R. J. FENSHAM: Interactive effects of fire frequency and site factors in tropical *Eucalyptus* forests 255
R. C. MAC NALLY: An analysis of density responses of forest and woodland birds to composite physiognomic variables 267
J. H. WARREN: The use of open burrows to estimate abundances of intertidal estuarine crabs 277
F. D. PODGER, D. C. MURRERY, C. R. PALZER AND M. J. BROWN: Bioclimatic analysis of the distribution of damage to native plants in Tasmania by *Phytophthora cinnamomi* 281
D. P. ARMSTRONG AND D. C. PATON: Methods for measuring amounts of energy available from banksia inflorescences 291
S. M. BELLAIRS AND D. T. BELL: Canopy-borne seed store in three Western Australian plant communities 299
S. R. MORTON, K. G. BRENNAN AND M. D. ARMSTRONG: Distribution and abundance of magpie geese, *Anseranas semipalmata*, in the Alligator Rivers Region, Northern Territory 307
R. C. MAC NALLY: The roles of floristics and physiognomy in avian community composition 321
J. MAGGS AND R. HEWETT: Soil and litter respiration in rainforests of contrasting nutrient status and physiognomic structure near Lake Eacham, north-east Queensland 329
J. T. PEARSON, A. D. SPARROW AND R. T. LANGE: Prolonged exposure to sheep grazing reduces the palatability of Australian saltbush populations 337
M. S. HOPKINS, A. W. GRAHAM, R. HEWETT, J. ASH AND J. HEAD: Short Note. Evidence of late Pleistocene fires and eucalypt forest from a North Queensland humid tropical rainforest site 345
G. W. KENDRICK AND K. MORSE: Short Note. Evidence of recent mangrove decline from an archaeological site in Western Australia 349
THESIS ABSTRACTS 355
BOOK REVIEWS 357

VOLUME 15, NUMBER 4, DECEMBER 1990

M. J. KEOUGH, G. P. QUINN AND A. KING: The ecology of temperate reefs 361
A. J. UNDERWOOD: Experiments in ecology and management: Their logics, functions and interpretations 365
M. J. KINGSFORD: Linear oceanographic features: A focus for research on recruitment processes 391
D. J. AYRE: Population subdivision in Australian temperate marine invertebrates: Larval connections versus historical factors 403
C. M. YOUNG: Larval predation by epifauna on temperate reefs: Scale, power and the scarcity of measurable effects 413
P. T. RAIMONDI AND M. J. KEOUGH: Behavioural variability in marine larvae 427
M. N. CLAYTON: The adaptive significance of life history characters in selected orders of marine brown macroalgae 439
P. G. FAIRWEATHER: Is predation capable of interacting with other community processes on rocky reefs? 453
K. A. MCGUINNESS: Physical variability, diversity gradients and the ecology of temperate and tropical reefs 465
P. S. LAKE: Disturbing hard and soft bottom communities: A comparison of marine and freshwater environments 477
S. J. HOLBROOK, R. J. SCHMITT AND R. F. AMBROSE: Biogenic habitat structure and characteristics of temperate reef fish assemblages 489
G. P. JONES AND N. L. ANDREW: Herbivory and patch dynamics on rocky reefs in temperate Australasia: The roles of fish and sea urchins 505
A. J. BUTLER AND P. L. CHESSON: Ecology of sessile animals on sublittoral hard substrata: The need to measure variation 521
REFEREES 533
AUTHOR INDEX 534